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TITLE OF THE INVENTION

SPRING CONNECTOR FOR SURFACE MOUNTING IN AN ELECTRONIC
DEVICE, AND METHOD FOR MANUFACTURING THE SPRING CONNECTOR

5 BACKGROUND OF THE INVENTION

The present invention relates to a spring connector
used for surface mounting in an electronic device, and
method for manufacturing the spring connector.

10 As a method for connecting electric parts in an
electronic equipment such as a portable telephone to a
circuit substrate, a spring connector having a plunger which
is slidably mounted in a tube and outwardly urged by a spring
is used. The spring connector is secured to the circuit
15 substrate and the plunger is pressed against a terminal
electrode of the electric part in assembling process of the
part in the equipment, thereby electrically connecting the
part to the circuit substrate.

Fig. 8 shows a conventional spring connector of an
electronic equipment, and Fig. 9 is a sectional view of the
20 spring connector.

The spring connector 1 comprises a cylindrical tube 2
made of metal, and a metal plunger 3 slidably inserted in
the tube 2 and outwardly urged by a coil spring 7. A shoulder
of a flange 3a of the plunger 3 is pressed against a bent
25 edge 2a of the tube 2 by the spring 7.

As shown in Fig. 8, the tube 2 is secured to a circuit
substrate 4 by a solder 5. An electric part 6 is downwardly
moved in the direction shown by an arrow at the assembling